

ANNUAL REPORT FOR 2002



Moore's Creek Bridge Mitigation Site
Pender County
TIP No. B-3011



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SUMMARY

The Moore's Creek Bridge Mitigation Site is located in Pender County. The site was planted in 2001 and was designed as mitigation for wetland impacts associated with bridge project B-3011.

The mitigation encompasses approximately 1.48 acres total of wetland restoration. The restoration effort involved the removal of the temporary detour and monitoring the area to ensure that it re-attains wetland jurisdictional status. No hydrologic monitoring is required for this project; however, vegetation monitoring is required for three years.

After the first year of monitoring, the Moore's Creek Bridge site shows by visual observation that the planted species are surviving and that the impacted area is re-attaining jurisdictional status.

NCDOT recommends continuing monitoring of this site.

1.0 INTRODUCTION

1.1 Project Description

The Moore's Creek Bridge Mitigation site is located at Bridge No. 11 on NC 53 and NC 11 in Pender County. The site consists of approximately 1.48 acres of mitigation for wetland impacts associated with project B-3011.

1.2 Purpose

In order for a mitigation site to be considered successful, a site must meet success criteria in vegetation. This report details the vegetation monitoring in 2002 at the Moore's Creek Bridge Mitigation Site. Hydrologic monitoring was not required for the site.

1.3 Project History

March 2001	Site planted
December 2002	Vegetation Monitoring (1 year)

**B-3011 Moore's Creek
Bridge Site
NC 11/53
East of Atkinson, Pender Co**



Figure 1. Site Location Map

2.0 VEGETATION: MOORE'S CREEK BRIDGE MITIGATION SITE (YEAR 1 MONITORING)

2.1 Success Criteria

Success Criteria states that the impacted area where the onsite detour was removed shall be replanted using native species and must re-attain jurisdictional status at the end of three years.

2.2 Description of Species

The following wetland species were planted in the Wetland Restoration Area:

Taxodium distichum, Baldcypress

Nyssa sylvatica var. *biflora*, Swamp Blackgum

Quercus phellos, Willow Oak

Quercus michauxii, Swamp Chestnut Oak

Fraxinus pennsylvanica, Green Ash

2.3 Results of Vegetation Monitoring

The impacted area where the onsite temporary detour was removed and revegetated is re-attaining jurisdictional status and the planted species are surviving.

Site Notes: Other species noted include: *Juncus* sp., cattails, black willow, fennel, and volunteer pine.

2.4 Conclusions

There were approximately 1.48 acres of wetland restoration planted on site. There were no plots established on the site. By visual observation the Moore's Creek Bridge site shows that the planted species are surviving and that the impacted area is re-attaining jurisdictional status.

3.0 Overall Conclusions and Recommendations

NCDOT proposes to continue monitoring at the Moore's Creek Bridge Site.

APPENDIX A

SITE PHOTOS

Moore's Creek Bridge



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6